Reply to Non-Final Office Action Attorney Docket No.: MAT-001 U.S. Serial No.: 10/665,921

## IN THE CLAIMS

Please amend the claims as follows:

1. (Withdrawn) A method for use in detecting a leak in a pressurized piping system conveying a liquid, comprising the steps of:

using a single, user demand detector to test for the presence of user demand on the pressurized piping system; and

determining whether pressure decay is present in the pressurized piping system when no user demand is present.

- 2. (Withdrawn) A method according to Claim 1, wherein the piping system conveying a liquid is a waterline.
- 3. (Withdrawn) A method according to Claim 2, wherein the waterline is a residential waterline.
- 4. (Withdrawn) A method according to Claim 3, wherein the testing step comprises determining whether there is a flow rate in the piping system that is greater than or equal to a preset minimal user flow rate.
- 5. (Withdrawn) A method according to Claim 4, wherein the minimal user flow rate is about 0.2 gallons per minute.
- 6. (Withdrawn) A method according to Claim 3, wherein the step of determining whether pressure decay is present comprises determining whether the pressure in the piping system has dropped below a minimum acceptable pressure.
- 7. (Withdrawn) A method according to Claim 6, wherein the minimum acceptable pressure is about 15 psig.
- 8. (Withdrawn) A method for use in detecting a leak in a pressurized piping system conveying a liquid, comprising the steps of:

using a single, user demand detector to test for the presence of user demand on the pressurized piping system;

determining whether pressure decay is present in the piping system when no user demand is present; and

Reply to Non-Final Office Action Attorney Docket No.: MAT-001 U.S. Serial No.: 10/665,921

preventing flow of liquid into the piping system when pressure decay is present and no user demand is present.

- 9. (Withdrawn) A method according to Claim 8, wherein the piping system conveying a liquid is a water line.
- 10. (Withdrawn) A method according to Claim 9, wherein the water line is a residential water line.
- 11. (Withdrawn) A method according to Claim 8, wherein the testing step comprises determining whether there is a flow rate in the piping system that is greater than or equal to a preset minimal user flow rate.
- 12. (Withdrawn) A method according to Claim 11, wherein the minimal user flow rate is about 0.2 gallons per minute.
- 13. (Withdrawn) A method according to Claim 8, wherein the step of determining whether pressure decay is present comprises determining whether the pressure in the piping system has dropped below a minimum acceptable pressure.
- 14. (Withdrawn) A method according to Claim 13, wherein the minimum acceptable pressure is about 15 psig.
- 15. (Currently Amended) A system useful for detecting a leak in a pressurized piping system, comprising:

control logic;

a user demand detector consisting essentially of either a single flow switch or a single flow meter, the user demand detector capable of determining whether user demand is present in the pressurized piping system;

a single, user demand detector in communication with the control logic; a pressure decay detector in communication with the control logic; and a shut-off valve in communication with the control logic.

16. (Original) A system according to Claim 15, wherein the control logic is designed to close the shut-off valve whenever pressure decay is detected and no user demand has been detected.

Reply to Non-Final Office Action Attorney Docket No.: MAT-001 U.S. Serial No.: 10/665,921

- 17. (Currently Amended) A system according to Claim 15, wherein the user demand detector comprises consists essentially of a flow switch.
- 18. (Currently Amended) A system according to Claim 15, wherein the user demand detector comprises consists essentially of a flow meter.
- 19. (Original) A system according to Claim 15, wherein the pressure decay detector comprises a pressure switch.
- 20. (Withdrawn) A method according to Claim 1, wherein the single user demand detector comprises a flow switch.
- 21. (Withdrawn) A method according to Claim 1, wherein the single user demand detector comprises a flow meter.
- 22. (Withdrawn) A method according to Claim 8, wherein the single user demand detector comprises a flow switch.
- 23. (Withdrawn) A method according to Claim 8, wherein the single user demand detector comprises a flow meter.